

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
10488/12:1APPLICATION NO.  
09/885,456INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)APPLICANT  
Kenneth J. HinesFILING DATE  
June 19, 2001GROUP  
2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MY	AA	5 8 1 9 2 7 0	10/06/98	Malone et al.	707	7	

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MY	AB	[Baecker et al., 1997] Baecker, R., DiGiano, C., and Marcus, A. (1997). Software Visualization for Debugging. <i>CACM</i> , Vol. 40, No. 4, April 1997, pgs. 44-54.
MY	AC	[Bates, 1986] Bates, P.C. (1986). <i>Debugging Programs in a Distributed System Environment</i> . Ph.D. thesis, University of Massachusetts, Amherst.
MY	AD	[Bates and Wileden, 1983] Bates, P.C. and Wileden, J.C. (1983). High-level Debugging of Distributed Systems: The Behavioral Abstraction Approach. <i>The Journal of Systems and Software</i> , Vol. 3, No. 4, December 1983, pgs. 255-264.
MY	AE	[Bruegge, 1991] Bruegge, B. (1991). A Portable Platform for Distributed Event Environments. In <i>ACM/ONR Workshop on Parallel &amp; Distributed Debugging</i> , pgs. 184-193.
MY	AF	[Fidge, 1991] Fidge, C.J. (1991). Logical Time in Distributed Computing Systems. <i>IEEE Computer</i> , 24(8):28-33.
MY	AG	[Hines and Borriello, 1998] Hines, K. and Borriello, G. (1998). Debugging Distributed Implementations of Modal Process Systems. <i>Lecture Notes in Computer Science</i> . 1474:98-107.
MY	AH	[Khouzam and Kunz, 1996] Khouzam, M. and Kunz, T. (1996). Single Stepping in Event-Visualization Tools. In <i>Proceedings of the 1996 CAS Conference</i> , pages 103-114.
MY	AI	[Koehnemann and Lindquist, 1993] Koehnemann, H. and Lindquist, T. (1993). Towards Target-Level Testing and Debugging Tools for Embedded Software. In <i>Conference Proceedings on Tri-ADA '93</i> , pages 288-298.
MY	AJ	[Kundu, 1996] Kundu, J. (1996). <i>Integrating Event- and State-Based Approaches to the Debugging of Parallel Programs</i> . Ph.D. thesis, University of Massachusetts, Amherst.
MY	AK	[Kunz, 1994] Kunz, T. (1994). <i>Abstract Behavior of Distributed Executions with Applications to Visualization</i> . Ph.D. thesis, Technische Hochschule Darmstadt, Darmstadt, Germany.
MY	AL	[Mattern, 1989] Mattern, F. (1989). On the Relativistic Structure of Logical Time in Distributed Systems. <i>Parallel and Distributed Algorithms</i> .

EXAMINER

*Michael Yigdal*

DATE CONSIDERED 12/22/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
10488/12:1APPLICATION NO.  
09/885,456INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)APPLICANT  
Kenneth J. HinesFILING DATE  
June 19, 2001GROUP  
2122

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MY	AM	[Netzer and Xu, 1993] Netzer, R. H. B. and Xu, J. (1993). Adaptive Message Logging for Incremental Program Replay, <i>IEEE Parallel and Distributed Technology</i> , pages 32-39.
MY	AN	[Harter et al., 1985] Harter, Jr., P.K., Heimbigner, D.M., and King, R. (1985). IDD: An Interactive Distributed Debugger. In <i>Proc. of the 5th International Conference on Distributed Computing Systems</i> , pages 498-506. IEEE.
MY	AO	[Russell, 1980] Russell, D. L. (1980). State Restoration in Systems of Communicating Processes. <i>IEEE Transactions of Software Engineering</i> , Vol. SE-6, No. 2, pgs. 183-194.
MY	AP	[Shende et al., 1996] Shende, S., Cuny, J., Hansen, L., Kundu, J., McLaughry, S., and Wolf, O. (1996). Event and State-Based Debugging in TAU: A Prototype. In <i>Symposium on Parallel and Distributed Tools</i> , pages 21-30.
MY	AQ	[Side and Shoja, 1994] Side, R. S. and Shoja, G. C. (1994). A Debugger for Distributed Programs. <i>Software - Practice and Experience</i> , Vol. 24(5), pgs. 507-525.
MY	AR	[Taylor, 1992] Taylor, D.J. (1992). A Prototype Debugger for Hermes. In <i>Proceedings of the 1992 CAS Conference</i> , pgs. 313-326.
MY	AS	[Taylor, 1995] Taylor, D. J. (1995). Event Displays for Debugging and Managing Distributed Systems. In <i>International Workshop on Network and Systems Management</i> .
MY	AT	[Tsai et al., 1990] Tsai, J. J. P., Fang, K. Y., and Chen, H. Y. (1990). A Noninvasive Architecture to Monitor Real-Time Distributed Systems. <i>IEEE Computer</i> , 23:11-23.
MY	AU	[Valot, 1993] Valot, C. (1993). Characterizing the Accuracy of Distributed Timestamps. In <i>ACM/ONR Workshop on Parallel &amp; Distributed Debugging</i> , pgs. 43-52.
MY	AV	[Zernik et al., 1992] Zernik, D., Snir, M., and Malki, D. (1992). Using Visualization Tools to Understand Concurrency. <i>IEEE Software</i> , 9(3):87-92.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

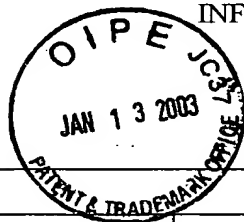
FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

10488/12:1

APPLICATION NO.

09/885,456

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

APPLICANT

Kenneth J. Hines

FILING DATE

June 19, 2001

GROUP

2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MY	AA	5	4	2	8	7	8	2		6/27/95	White	395	650	
MY	AB	5	6	4	2	4	7	8		6/24/97	Chen, et al.	395	183.21	
MY	AC	5	7	2	4	5	0	8		3/3/98	Harple, Jr. et al.	395	200.04	
	AD													
	AE													
	AF													
	AG													
	AH													
	AI													
	AJ													
	AK													

RECEIVED  
JAN 15 2003  
Technology Center 2100

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	NO
MY	AL	EP 0 881 568 A2								29.05.1998	Europe	G06F	9/46		
MY	AM	EP 0 822 484 A2								04.02.1998	Europe	G06F	9/44		
	AN														
	AO														
	AP														

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MY	AR	Ken Hines and Gaetano Borriello, "A Geographically Distributed Framework for Embedded System Design and Validation," <i>DAC 98, June 15-19, 1998, San Francisco, CA USA</i> , pp. 140-145.												
MY	AS	Gopalan Suresh Raj, "A Detailed Comparison of CORBA, DCOM, and Java/RMI," <i>Web Cornucopia</i> , wysiwyg://402/http://gsraj.tripod.com/misc/compare												
MY	AT	"CORBA Overview," <i>CORBA v2.0</i> , July 1995, pp. 2-1 to 18-5												

EXAMINER

Michael Yigdal

DATE CONSIDERED

12/22/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

10488/11:1

APPLICATION NO.

09/885,448

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

APPLICANT

Kenneth J. Hines

FILING DATE

June 19, 2002

GROUP

2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
JAN 15 2003  
Technology Center 2100

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MY	AR	Richard J. Anderson, Paul Beame, Steve Burns, et al., "Model Checking Large Software Specifications," <i>Sigsoft '96 California, USA</i> , pp. 156-166.
MY	AS	Christopher B. Borchert, "Organization and Management of Distributed Execution Event Histories For Real-Time Debugging," <i>IEEE</i> , pp. 343-345.
MY	AT	Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon, "Visualizing and Querying Distributed Event Traces with Hy+," <i>Computer Systems Research Institute, University of Toronto</i> , June 1994, pp. 123-141.

EXAMINER

Michael Yigdal

DATE CONSIDERED 12/22/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

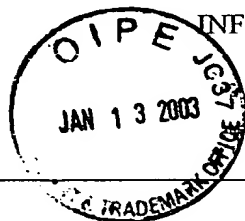
FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

APPLICATION NO.

10488/11:1

09/885,448

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

APPLICANT

Kenneth J. Hines

FILING DATE

June 19, 2001

GROUP

2122

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
JAN 15 2003  
Technology Center 2100

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MY	AR	Wentong Cai, Wendy J. Milne and Stephen J. Turner, "Graphical Views of the Behavior of Parallel Programs," <i>Journal of Parallel and Distributed Computing</i> , June 18, 1993, No. 2, Orlando, FL, USA, pp. 223-230.
MY	AS	Matthew S. Jaffe, Nancy G. Leveson, Mats P.E. Heimdahl, et al., "Software Requirements Analysis for Real-Time Process-Control Systems," <i>8198 IEEE Transactions on Software Engineering</i> , March 17, 1991, No. 3, New York, US, pp. 241-257.
MY	AT	Thomas Kunz, David J. Taylor, and James P. Black, "Poet: Target-System-Independent Visualizations of Complex Distributed Executions," <i>IEEE</i> , 1997, pp. 452-461.

EXAMINER

Michael Yigdal

DATE CONSIDERED 12/22/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

APPLICATION NO.

10488/11:1

09/885,448

APPLICANT

Kenneth J. Hines

FILING DATE

June 19, 2001

GROUP

2122

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
JAN 15 2003  
Technology Center 2100

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MY	AR	Doug Kimelman and Dror Zernik, "On-the-Fly Topological Sort - A Basis for Interactive Debugging and Live Visualization of Parallel Programs," 8398 ACM Sigplan Notices, December 28, 1993, No. 12, New York, US, pp. 12-20.
MY	AS	Mikhail Auguston, "Building Program Behavior Models," Dept. of Computer Science, New Mexico State University, pp. 19-26.
MY	AT	Stephen Edwards, Luciano Lavagno, Edward A. Lee, et al., "Design of Embedded Systems: Formal Models, Validation, and Synthesis," Proceedings of the IEEE, Vol. 85, No. 3, March 1997, pp. 366-389.

EXAMINER

Michael Yigdal

DATE CONSIDERED 12/22/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

APPLICATION NO.

10488/11:1

09/885,448

APPLICANT

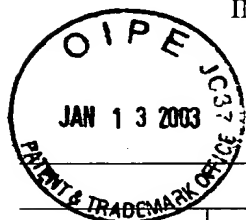
Kenneth J. Hines

FILING DATE

June 19, 2001

GROUP

2122

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
JAN 15 2003  
Technology Center 2100

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MY	AR	Pai Chou, Ross Ortega, Ken Hines, et al., "IPChinook: An Integrated IP-based Design Framework for Distributed Embedded Systems," pp. 44-49.
MY	AS	Pai Chou, Ken Hines, Kurt Partridge and Gaetano Borriello, "Control Generation for Embedded Systems Based on Composition of Modal Processes," pp. 46-53.
MY	AT	Pai H. Chou and Gaetano Borriello, "Synthesis and Optimization of Coordination Controllers for Distributed Embedded Systems," pp. 410-415.

EXAMINER

Michael Yigdal

DATE CONSIDERED 12/22/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.